

University's Economic Impact on City Amounts to \$440.1 Million

Through its purchases of goods and services and the expenditures of its staff, students and visitors, the University's economic impact on the City of Edmonton was \$440.1 million for the 1985-86 academic year.

According to a recently completed study by the University's Management Advisory Institute, a total of \$295.4 million was injected into the local economy by the University from 1 April 1985 to 31 March 1986. The use of a multiplier effect of 1.49 (chosen

from a set of tables prepared by the Alberta Bureau of Statistics) brings the economic impact to \$440.1 million.

During this period, the University received slightly more than \$405 million in revenue. Of this amount, a large portion was injected back into the community through expenditures made by the University (\$52.7); staff (\$163.5); students (\$76.8); and visitors (\$2.4) for a total of \$295.4 million spent in the city. The total amount of University expenditures during the

1985-86 academic year was in excess of \$396 million.

The report points out that the University received the majority of its funding from the provincial and federal governments; the sale of goods and services, tuition and related fees, investment income, gifts, donations and grants, and proceeds of disposals round out the other major revenue sources. Most of this revenue originated outside the immediate area which means that if the University did not exist neither would this influx of

revenue.

The University employed close to 10,000 people during 1985-86, making it the third largest employer in the city (the City of Edmonton employed 10,628, and the provincial government 15,912). The impact of the University staff was compounded during this period by a full- and part-time student enrolment of 28,402. (It has been estimated that during an average day in the Winter session, the campus population approaches 35,000.) □

FOLIO

University of Alberta

19 March 1987



Money From Home

The University of Alberta Agriculture Club recently presented two cheques to the Faculty of Agriculture and Forestry. The first, for \$1,000, will help put the finishing touches on the Swine Research Unit. Much of the funding was raised at Bar None. Club President Cameron Schmitt also transferred \$10,000 from a commercial bank account to the Faculty's Speakers' Endowment Fund. The presentations involved (left to right) Bob Hardin and Frank Aherne of Animal Science, Vice-President (Administration) and well-known Aggie Allan Warrack, Mr. Schmitt, Cecilia Mortenson and Hilary Hahn of the club's executive, and Dean Roy Berg.

Funding of Post-Secondary Institutions to be Probed

Dave Russell, Minister of Advanced Education, recently announced the appointment of J. Stefan Dupré to conduct a study into the matter of alleged inequities in funding among the province's post-secondary institutions.

Dr. Dupré has been a professor of political science at the University of Toronto since 1963 and has served as a member or chair of approximately a dozen federal and provincial councils, commissions and task forces. He was the founding chairman of the Ontario Council on University Affairs, created in 1974 as the agency charged with advising the Ontario government on the funding of the province's 15 universities.

Continued on page two

Contents

- McCalla Professors
- Henry Kreisel Lecture
- Swan in love with heraldry
- PACC Status Report
- From the pages of *Research Report* . . .



Musacchio, Schouls Claim McCalla Professorships

The interrelated ideas of love and war as expressed in literature have interested Enrico Musacchio (Romance Languages) for a long time. His appointment to a McCalla Professorship will give him time to explore the subject more fully and then write the book on "Love castles and love gardens in Italian Renaissance literature" that he already has in mind.

The metaphor of the "lover-warrior" is found in Greek literature, recurs in medieval writings and undergoes a dramatic change in the sixteenth century. But it will take sustained research to disentangle the intricately interwoven threads of the images of love and war, Dr. Musacchio says.

One such image is the castle of love. That is the thread that he intends to follow in detail, contrasting it with the image of the magic garden. (Both these themes were enormously popular in Renaissance romances, he points out.)

The study will include texts, commentary, and a considerable number of illustrations. A rough draft of the first chapter has already been completed. Material for the illustrations will be collected in Europe this summer. The final draft will be ready by mid-1988, and will be submitted to publishers in Bologna who have already expressed interest in the book.

Dr. Musacchio joined our University in 1962, having earned a BA (1956) from Baldwin-Wallace College, Ohio, and a PhD (1959) from the Università di Roma. He was promoted to Professor in 1981, and has held teaching positions at the University of Sri Lanka and the University of Rome. He is the author of five books, and the co-author of three.

Peter Schouls

Peter Schouls' year as a McCalla

Professor will give him time to finish his book on John Locke—thus completing the three-book project on major seventeenth century thinkers that he began in 1978.

Under the working title "Locke as Philosopher of Mastery", Dr. Schouls' new work will examine, as its central theme, Locke's view of mastery. Sub-themes are the concepts of *reason, freedom and education*, each of which is related to the concept of mastery.

The study will have three major parts. The first deals with reason and the nature of a master, says Dr. Schouls. The second looks at freedom and the nature of a master. The third deals with the education of a potential master.

For Locke, the concepts *mastery, reason, freedom and education* were related in the following ways, as Dr. Schouls sees it.

A human being is born to be a master because it is the nature of humans to be rational and free. Mastery is achieved through the deliberate exercise of reason in all the exigencies of life. In short, the human birthright is a life of mastery, of which liberty and reason are the hallmarks.

However, Locke sees most human beings as being in bondage: to superstition, to human institutions, to other human beings.

Wrong upbringing or education is the chief cause of this bondage.

But can one say that right upbringing (or, lacking that, proper re-education) guarantees an escape from this bondage and an appropriation of the human birthright of a life of mastery?

Not really, according to Locke. All that a right upbringing, or proper re-education, ensures is that a person is "in circumstances favourable for the achievement of mastery, and for the salutary exercise of . . . reason in all affairs of life. Whether this opportunity will be grasped depends on

decisions of the individual, and these are beyond the educator's control."

Dr. Schouls' study will consist of nine chapters: an introductory chapter, followed by three on reason, two on freedom, two on education, and a concluding chapter to consider whether Locke is optimistic about the possibility of achieving mastery. Many of the chapters have already taken shape.

The first volume in Dr. Schouls' three-book project is *The Imposition of Method: a study of Descartes and Locke*, published by Oxford University Press in 1980. The second volume, *Descartes and the Enlightenment*, has been recommended for acceptance by Edinburgh University Press.

Dr. Schouls earned his graduate and undergraduate degrees at the University of Toronto, joined our University in 1967, chaired the Philosophy Department from 1970 to 1976, and was promoted Professor in 1976. He has sat on more than 30 departmental, Faculty and University councils and committees; has served on the boards of a number of community

organizations, including the Edmonton Art Gallery; and since 1968 has delivered a great many "popular" lectures on philosophical themes to a variety of audiences. He is editor of a book on the philosophy of John Locke and the author of a number of articles and reviews. □

Funding—Continued from page one

Dr. Dupré has been a member of the National Research Council and of the Social Sciences and Humanities Research Council of Canada. He is also the co-author of a book concerning federal manpower training policies and community colleges. He is a past president of the Institute of Public Administration of Canada, a recipient of the Institute's Vanier Medal and an Officer of the Order of Canada. He received his PhD in political economy from Harvard University in 1958 and holds honorary degrees from Laval, McMaster and the University of Ottawa.

Dr. Dupré's recommendations will be forwarded to Mr. Russell prior to the fall of 1987. □

FOLIO

Volume Twenty-three
Number Thirty-one

Office of Public Affairs
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(403) 432-2325.

All enquiries and correspondence should be directed to:
Ron Thomas
Editor

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

Deadlines:

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.

Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission. **Display advertisements:** 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

Folio contents may be reprinted with acknowledgment.



University
of
Alberta

ISSN 0015-5764
Copyright 1987

Yolande Villemaire: Visiting Writer

Yolande Villemaire is considered by the critics as one of the leading writers of the new literary generation in Québec. The native of Montréal is the author of a dozen books, including the novels *La vie en prose* (Price of the Young Writers, Journal de Montréal, 1980) and *Angé Amazone* (translated, *The Amazon Angel*); and poetry such as *Adrénaline* (1982), *Les coincidences terrestres* (1983), *Quartz et mica* (1985). Her last novel, *La*

constellation du cygne (1985), has been well received, thus confirming the high quality of her work.

Yolande Villemaire will be reading in English and French at the University of Alberta and at the Faculté Saint-Jean during the fourth week of March (23-28) and will animate a literary workshop. (See "Talks" section for further details). □

Monica Hughes to Present Kreisel Lecture

'Growing-up' of Children's Literature in Canada" is the topic of the 1987 Henry Kreisel Lecture to be given by Monica Hughes. Hughes will speak on Tuesday, 24 March, at 7:30 p.m. in L-1 Humanities Centre.

A resident of Edmonton, Hughes began serious writing in 1971. From 1980 to 1984, her work won several awards, including the Beaver Trophy, Vicky Metcalf Award and the Vicky Metcalf Short Story Award, the Switzerland-based International Board on Books for Young People Award, and the Young Adult Canadian Book Award. One of her science fiction books, *Ring-rise, Ring-set*, was the Guardian Runner-up in 1983. Her writing portrays adolescents in socially responsible roles; she has also written sensitively about Inuit, Cree, Blackfoot and Hutterite cultures.

The annual Henry Kreisel Lecture was inaugurated in 1983 by the Library to recognize an "outstanding University Professor

and friend of the Library."

Dr. Kreisel joined the English Department in 1947 and was appointed Full Professor in 1954. He has been Chairman of English, an Associate Dean of the Faculty of Graduate Studies, and Vice-President (Academic).

The author of two novels, *The Rich Man* and *The Betrayal*, Professor Kreisel was awarded the President's Medal by the University of Western Ontario, the J.I. Segal Foundation Prize for his collection of short stories *The Almost Meeting*, and was elected to the London-based Royal Society of Arts.

As Chairman of the GFC Library Committee, Professor Kreisel presided over the growth of the Library's collection and instituted policies which allowed the Library to obtain a number of important collections.

The first Kreisel Lecturer was Guy Sylvestre, Librarian Emeritus of the National Library of Canada in Ottawa. □

PACCR Status Report

A decade ago, the Board of Governors directed the President to establish a University Priorities Committee to advise on a broad range of issues involved in using the resources of the University to best effect. Following extended discussion, the Academic Development Committee, in collaboration with the Deans' Council and in consultation with others in the University community, undertook to draft terms of reference for reviews of academic programs. Their recommendations were approved with amendments by General Faculties Council on 28 January 1980, and then submitted to, and approved by, the Board of Governors on 8 February 1980. The steering committee for the reviews was later renamed the President's Advisory Committee on Campus Reviews (PACCR) with the mandate to conduct reviews of all academic and administrative/support units. The Advisory Committee continues to be F. Enns, W.E. Harris (Chairman), W.H. Jopling, and H. Kreisel. The Coordinator for PACCR is S. Moore.

During the first couple of years, while procedures and practices were being developed, only a few units were completed. Since then, the objective has been to complete about 15 reviews per year. The University comprises about 130 academic and administrative/support units. As of February 1987, reviews of 70 units have been completed. About 30 departments are either just starting, are working on, or have just completed their self studies. About 30 remaining departments or units are scheduled to begin the process of review in 1987 and 1988.

The members of PACCR have completed a second edition of "Some Comments on Campus Reviews." This booklet includes detailed historical background, the philosophical approach, the normal review process, and comments on academic workloads. Copies of the booklet are available on request from Mrs. Shirley Moore, PACCR Office, W4-13 Chemistry (432-5059). More detailed information about the status of any particular unit is also available.

A Swan in Satin and Silver: Words From a Royal Herald

When Conrad Swan goes to work at his college in London, England, he wears a satin three-quarter-length embroidered coat with open sleeves, and a big silver chain around his neck.

"Yes, those are my working clothes," confirms the first Canadian to become a member of the Royal Household. He and his college screen applicants who want a coat of arms for their family, company or other legally-constituted body.

"Heralds are interested in uniqueness, while preserving the rights of existing families with arms," he told a St. Joseph's College 60th anniversary lecture audience last week. Heraldry he defined as the "art and science of identification" and using slides to illustrate his point, the man whose last promotion was from Red Dragon to Registrar took his audience on an armorial tour of British colonial power, India to the West Indies, Australia to Africa.

Swan, now approaching 65, has no worries about retirement. Appointed for life (on good behavior), he is one of 13 officers of arms, all members of the Royal Household (as opposed to mere civil servants). His salary is so small it's a joke, but among heralds so is the state of your health: promotion is usually brought on by another officer's death.



Conrad Swan, esquire, dressed for heraldic business.

Credit: Robin Adler/Bradbrook House Studio Place, London.

Swan, a self-confessed "relic of the Raj" who retired from the Indian Army in 1947 "when he couldn't change the color of his skin overnight," was born in Duncan, B.C., and educated in Canada and Britain. His brother Peter is Dean of St. Joseph's.

The Basilians are "the keepers of heraldic conscience in the fields of academe," said Swan, alluding to the Roman Catholic teaching order who conduct St. Joe's and other colleges in Canada. □

What Can We Learn From Monkeys?

Observing the social behavior of monkeys can give us some sense of where we fit in the scheme of things. What can the life patterns of female monkeys show us?

Anthropologist Linda Fedigan watches monkeys because, she says, "One way to learn more about ourselves is to look at the social patterns of another species."

For 15 years the University of Alberta researcher has been studying a colony of Japanese macaque monkeys brought from Japan and released on a research ranch in Texas.

Much primate research has emphasized males and male behavior, but Fedigan's focus is on females and female behavior. She's

especially interested in sex role differences and the relationships between the sexes. ("The males play only a 'cameo role' in the history of the group," she says.)

Fedigan is also looking at mother and child relationships and patterns. How do macaques fare in childbirth? Is mothering learned? Are there good mothers and bad mothers in the wild? Are they better mothers when they've had more offspring? Do the sex and personality of their offspring affect the mother?

Fedigan is also interested in observing the macaque females' patterns of aging and aging behavior.

The life histories of more than 500 monkeys are already stored on computer. □

Anyone Can Do It This Way

Using this authoring system, virtually anyone can write a computer program—and in a remarkably short time, too.

If you use the authoring system OMNISIM (pronounced omnie-sim), it will take you only about 25 hours to write a script for a one-hour computer-assisted lesson on any subject dear to your heart.

If you use one of the usual computer "languages", it will take you up to 100 hours to write the same script. And before that, you'll have to learn the (probably complicated) language.

OMNISIM, developed by Anatomy Professor Keith Bagnall at the University of Alberta, enables a content expert with no knowledge of computer languages to develop computer-based lessons.

Bagnall designed and developed OMNISIM using the massive PLATO information base on the mainframe at the University; and to create a script with OMNISIM also requires access to PLATO on a mainframe.

"It would take a person of

normal intelligence about two days to learn how to use OMNISIM," says Bagnall. "It's a bit like learning how to use a word processor. And once OMNISIM has been mastered, it takes only 20 to 25 hours to write the material for a one-hour lesson directly onto the computer." (He compares this with the time taken by an experienced programmer, using a conventional computer language, who, Bagnall recalls, took two months to write a paediatrics lesson.)

Even less of an instructor's time is taken up if there's a secretary available who understands OMNISIM. In that case, the instructor spends only the time needed to write out the lesson material on paper—probably 12 to 15 hours. The secretary then puts it on the computer in two or three hours—exactly how long that takes depends on typing speed.

Once the lesson is on a floppy disc, anyone with a personal computer can use it.

Bagnall developed OMNISIM in his spare time, over a period of four or five years, to speed up production of anatomy lessons for

his students. He called the first system ANATSIM (anatomy simulation). The second generation became OMNISIM (everything simulation) when he realized the enormous potential of the system as an authoring tool for scripts on virtually any subject. The third generation could be an even further advance, he believes. □

This article and "Monkeys" (page 3) extracted from the January/February 1987 edition of Research Report—a file of features and story leads for members of the media and freelance writers.

TO ALL *Man in Motion*

VOLUNTEERS

Thank You

Your Efforts Raised

\$28,000

Tax deductible donations still being taken
Rm. W15 Van Vliet Centre
Phone 432-7655

Natasha Josefowitz to Speak

The conflict women experience in attempting to balance their roles in life is the topic of a dinner talk to be given by Natasha Josefowitz, management consultant and educator, on the evening of Wednesday, 30 March, at the Westin Hotel.

A faculty member at San Diego State University, Dr. Josefowitz's views on women in management are discussed in her articles and

books, including *Paths to Power: A Women's Guide From First Job to Top Executive*.

The evening is sponsored by the Canadian Association of Special Libraries and Information Services (CASLIS)—Edmonton Chapter, the Library Association of Alberta, and Volume II Books. Suzan Hebditch, Administrative Librarian, Legal Resource Centre (432-5732), is one of the organizers of the event. □



Canada Research Fellows

Pictured are George Lang (left) of Comparative Literature and Brian McKercher of the History Department. Outlines of their award-winning projects were published in Folio on 19 February, but their photos were not available at that time.

Young Men Seek Muscles From Nigerian Grad

John Okoro has a professional interest in young men who want bigger muscles—now.

The Nigerian graduate student (Physical Education and Sport Studies) is currently running a strength and endurance lab, aimed at finding which training method builds the male body fastest, with least increase in fat.

Seventy volunteers aged between 18 and 28 answered his *Folio* ad.

Sixty emerged from an introductory session, to become his four, 15-men groups (three for testing, one a "control.")

"There's controversy among coaches and athletes as to which method gives best results," he says. "But none about the value of training itself. You train, or you hover on the edge of mediocri-

Okoro's lab ends in early April. □

Activities



Ernesto Lejano (Music) has been named a recipient of an Alberta Achievement Award . . . Gary Davidge has assumed the position of Vice-Chairman of the Board of Governors . . . The King's College of Edmonton has attained degree-granting status . . . Retirement functions are being planned on behalf of Matt Kuester (Materials Management) and Eileen Marcotte (Office of Administrative Systems). Kuester will be honored on 27 March in the Stollery Centre, 5th floor, Business Building, from 3 to 5:30 p.m. Tickets are \$10 per person (includes contribution to gift). R.S.V.P. by 3 p.m. on 25 March, 432-5438 (Rene). The reception for Marcotte goes 1 May from 4 to 7 p.m. in the Alberta Room of Lister Hall. Hot and cold appetizers will be served, with a cash bar. Tickets: \$6.50 per person. If you wish to attend and/or contribute to the purchase of a gift, call Joan Yandau or Joan Owen (432-4572) before 15 April . . . 28 September to 4 October has been designated as Canadian High Technology Week '87. The federal government encourages leaders from industry, academia, labour and the community to schedule or plan trade shows, conferences and other events for the week . . . L.C. Green (University Professor) attended the 1987 Central East Alberta Teachers' Convention and delivered an address titled "What is Terrorism?" At the Montreal CRB Foundation consultation on Human Rights and Terrorism, he spoke on "Responses at the International Level."

University Videotapes Moving Well at Public Library

The first results from the University's participation in an Edmonton Public Library project are in, and the numbers look good.

The project was an experiment in lending "alternative title" videotapes through the library system. The University, through the Department of Radio and Television, participated with 45 titles produced on campus.

The library loans VHS-format tapes not stocked by commercial outlets, for example, "Aida" and "Yellowstone Tour."

Of the Radio and Television tapes selected for inclusion, the most popular to date has been "Sex Education in the Schools," a documentary originally made for a series running on CFRN TV. It was borrowed 32 times in the eight-month period covered by the current tabulation. (Library officials say loan numbers can be artificially low because there is only one cassette of each title in the system and there are constant backlog.)

Patrons can get loans at any branch library by using the "place-a-hold" system.

The most popular title in the

library system is "Jane Fonda's Workout" with five copies in constant circulation. Since health is such an obvious interest of patrons, the department is considering offering the library its "Fitness for Seniors" series.

On average, each University-produced videotape was taken out 21 times, and the figure may increase when additional copies become available.

Some sample titles and circulation figures are: "The Coaldale Mennonites" (21), "Giving Up and Holding On" (Islam) (25), "Judaism: Tradition in Transition" (23), and "Pilgrimage, the French Catholics of Girouxville" (19). These titles are in the Religious Diversity Series produced by Don Spence with the cooperation of Earle Waugh (Religious Studies).

Some of the oldest productions in the collection, done in black and white before color videotape became standard in the department, have found an audience. "Small Claims Court Procedure," which dates from 1973, has 27 loans; "The New Harpoon," an Inuit story from 1972, has 27.

"Whatsoever Things Are True," the University's own story, produced by Elvira Barabash, has been borrowed 16 times, and "Soils of Alberta," produced by Dave Sands for Steve Pawluk (Soil Science), has 19 loanouts.

The Public Library has announced it will continue to keep University of Alberta titles in its system, a system that will expand by another 500 titles this year. □

Canadian, Indian Federalism to be Compared

A conference titled "Comparative Federalism: Canada-India" will be held on campus 26 and 27 March.

Speakers from the Universities of Lethbridge, Victoria, Kentucky, Queen's, Carleton, British Columbia, Guelph, and Calgary, as well as from the National Institute of Public Finance in Delhi, may be heard in TBW2 Tory Building (9 a.m. to noon and 2 to 4:30 p.m. on 26 March; 8:30 a.m. to 12:30 p.m. and 2 to 4:30 p.m. on 27 March).

The conference has been organized by the Shastri Indo-Canadian Institute, University of Alberta Committee.

Five topics are on the program: "Federal States and Institutions", "Political Culture and Federalism", "Federalism and Public Policy", "Regionalism and Nationalism", and "Federal and Provincial Fiscal Relations".

The conference has received funds from a number of sources, including the Vice-Presidents (Academic) and (Research), and the *Edmonton Journal*.

On 27 March, the organizing committee will present a "Music of India Festival" with Anuradha Naimpally, Bharata Natyam Dancer. The performance will take place from 11 a.m. to 1 p.m. in 1-29 Fine Arts Building.

At 8 p.m. that day, the concert "Music of Poetry, Music of Dance" will begin in L-1 Humanities Centre. Bill Meilen ("Poetry of Tagore") and Regula Qureshi ("Raga Improvisation") will join Anuradha Naimpally.

Alberta Culture and the University's Department of Music are funding the events.

All portions of the conference and the cultural program are open to the public free of charge.

For more information, call K. Gupta, 432-3127. □

Selection Committees for Deans

The GFC Nominating Committee is seeking nominees to fill forthcoming vacancies on the following Selection Committees for Deans:

Selection Committee for Dean of Agriculture and Forestry

One (1) faculty member elected by GFC from a Faculty other than the one concerned.

Selection Committee for Dean of Arts

One (1) faculty member elected by GFC from a Faculty other than the one concerned.

... a second faculty member elected by GFC from any Faculty of the University, including the one concerned.

Selection Committee for Dean of Business

One (1) faculty member elected by GFC from a Faculty other than the one concerned.

Selection Committee for Dean of Dentistry

One (1) faculty member elected by GFC from a Faculty other than the one concerned.

Selection Committee for Dean of Education

One (1) faculty member elected by GFC from a Faculty other than the one concerned.

Selection Committee for Dean of Graduate Studies and Research

Three (3) faculty members from, and elected by, General Faculties Council.

Selection Committee for Dean of Student Services

Two (2) faculty members elected by and from GFC who are not affiliated with a unit that relates to Student Services.

Would those persons who have suggestions for nominations, or who are interested in serving on any of the above, please communicate with Pamela Plaskitt, 2-5 University Hall (432-4715). A brief *vita* should accompany each nomination.

Folio

Display Advertising

Folio is the official news publication of the University of Alberta, published every Thursday throughout the year (except for July and August when it appears bi-weekly). It has a regular distribution of 9,000 of which 7,800 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

Sizes and rates

The basic unit size is 27 aggregate lines x 23 picas (3 7/8" x 2"). The full page is divided into 10 such units, any combination of which is available at a cost of \$35 per unit (minimum 1 unit). Half page cost: \$175. One column cost \$87.50. There is a 15% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

Other specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is necessary; there is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work.

Deadlines

Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor. For more information, telephone (403) 432-2325 and ask about *Folio* display advertising, or write to:

Folio Display Advertising
Office of Public Affairs
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8

Smoking Prohibited at University of Alberta Hospitals

Effective 1 April 1987, the University of Alberta Hospitals will be smoke-free, thus joining a growing number of health-care institutions restricting smoking in the workplace.

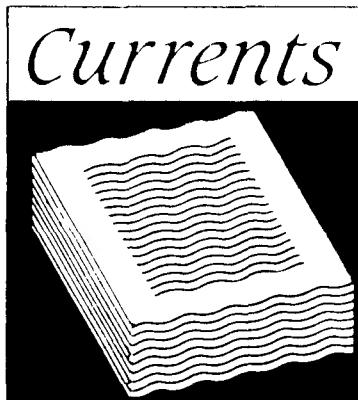
In particular circumstances, and on a physician's written order,

certain patients will be allowed to smoke. Generally, however, the Hospitals' intent is to operate as a totally smoke-free environment.

To assist staff and patients who wish to stop smoking, the University of Alberta Hospitals has instituted a series of smoking cessation programs. Various educational programs sponsored by the Canadian Cancer Society and the Alberta Lung Association are and will continue to be available.

Further details on the various programs can be obtained from Peter Kostin, Co-ordinator, Smoke-free Policy, 432-7149.

On campus, the foyer and Council Chamber (rooms 2-1D and 2-1) in University Hall have been designated no-smoking areas. □



Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACCR), the **Division of Building Trades, Department of Physical Plant**, is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee. In preparation for this second phase, PACCR invites written comment prior to 3 April 1987. Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee.

Submissions should be sent to: Mrs. Shirley Moore, Coordinator, PACCR Office, W4-13 Chemistry Building, Attention: The Building Trades Unit Review Committee.

'Artificial Materials in the Body'

On 10 April at 8 p.m., at the Faculty Club, the American Society for Metals, in conjunction with the Faculty of Medicine, will host a seminar on "Artificial Materials in the Body." Guest speakers are T.M.S. Chang, Director, Artificial Cells and Organs Research Centre, McGill University, and Bob Sutherby, Hoogensen Metallurgical Engineering Ltd., Calgary.

The seminar will be preceded by a dinner (non-members of ASM, \$16; students, \$10).

To register, call 483-0264 or 483-3436 before 6 April.

Bookstore Inventory

The Bookstore will be closed for year-end inventory 26 through 28 March. Reopening is scheduled for 30 March.

GSA's AGM

The Graduate Students' Association of the University of Alberta will be holding its Annual General Meeting on 24 March at 6 p.m. in the Back Room of the North Power Plant. The meeting is open to all graduate students.

Medical Rehabilitation, Faculty of Medicine, University of Manitoba, "Breathing Patterns in Chronic Obstructive Pulmonary Disease: Implications for Physiotherapy Management." T109 Corbett Hall Trailer Complex.

History

20 March, 3:05 p.m. E.M. Spiers, Distinguished Visiting Speaker, University of Leeds, "Canada's Defence Commitments and Capabilities." 2-58 Tory Building.

26 March, 3:30 p.m. Professor Spiers and K.C. Taylor, "Canadian Defence Options for the 1990s." TB-95 Tory Building.

27 March, 3:30 p.m. T.E. Vadney, Department of History, University of Manitoba, "Contemporary World History: An Agenda." 2-58 Tory Building.

3 April, 3:05 p.m. S. Vinh and N. Wickenden, "Western Ideas in Meiji Japan: The Case of Tokutomi Sohō's Shōrai No Nihon (The Future Japan)." 2-58 Tory Building.

Comparative Literature

20 March, 3:30 p.m. Helen Collinson, "Particular Expressions: Contemporary Canadian Art." 101 Law Centre.

27 March, 3:30 p.m. Gerard Magennis, "Cityscape as Structure in the Novels of Brian Moore." 101 Law Centre.

3 April, 3 p.m. Karin Kondratzyk, "Torn Voices: Language and Communication in Margaret Laurence's *The Stone Angel* and Anne Hebert's *Kamouraska*." 101 Law Centre.

Zoology

20 March, 3:30 p.m. Joe Culp, Department of Biology, University of Calgary, "Evaluation of the Impact of Benthic Foraging Fish on Stream Macroinvertebrates." M-149 Biological Sciences Centre.

27 March, 3:30 p.m. C. Shatz, Department of Neurobiology, Stanford University, School of Medicine, "Why Do Axons Wait During the Development of Connections Between the Lateral Geniculate Nucleus and the Visual Cortex." M-149 Biological Sciences Centre.

3 April, 3:30 p.m. Jean de Vellis, Neurobiochemistry Group, Mental Retardation Research Centre, University of California, Los Angeles, "Role of Hormones and Growth Factors in the Development of Neurons." M-149 Biological Sciences Centre.

21 March, 2 p.m. Antonius Markos, Coptic Bishop of Africa, "Coptic Growth in Kenya Among Traditional Peoples." 468 Humanities Centre.

Religious Studies

23 March, 2 p.m. Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio, "Imperatives for Advancing Nursing's Knowledge Base." 2F1.04 Mackenzie Health Sciences Centre. Sponsored by AHFMR.

Population Research Laboratory

23 March, 3 p.m. Leslie Kennedy, "Edmonton Area Studies After 10 Years." TB-W2 Tory Breezeway.

Nursing

23 March, 4 p.m. Rozella Schlotfeldt, Professor and Dean Emeritus, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio, "Imperatives for Advancing Nursing's Knowledge Base." 2F1.04 Mackenzie Health Sciences Centre. Sponsored by AHFMR.

Women's Studies Program

23 March, 4 p.m. Susan Sherwin, Chair of Philosophy, Dalhousie University, "In Vitro Fertilization and Feminist Ethics." L-3 Humanities Centre.

CITL

24 March, 3 p.m. Douglas R. Wilson, "What Can Deans/Chairmen Do to Encourage Good Teaching?" TB-W2 Tory Breezeway.

25 March, 3 p.m. Jim Shaw, "Using the MacIntosh to Produce Overhead Transparencies." 128 Corbett Hall.

26 March, 2:30 p.m. Hugh C. Phillip, "Speaking with Class." 2-33 Humanities Centre.

Economics

24 March, 3:30 p.m. Marcel Boyer, Chairman, Département de Sciences Économiques, Université de Montréal, "Expanding the Informativeness of the Price System With Law: The Case of Misleading Advertising." 8-22 Tory Building.

Philosophy Club

24 March, 3:30 p.m. Eamonn Callan, "The Moral Status of Pity." 4-29 Humanities Centre.

Agricultural Engineering

24 March, 4 p.m. Ian Spiers, Spierco Industries Ltd., Calgary, "Tools of Dryland Farming." 1-30 Agriculture-Forestry Centre.

30 March, 4 p.m. Harvey Manbeck, Department of Agricultural Engineering, Penn State University, "Grain Bin Loads and Pressures." E-346 Chemical/Mineral Engineering Building.

Plant Science

24 March, 4 p.m. Z. Pesic and C. Hiruki, "Viruses Occurring in Alfalfa Breeding Stocks in Alberta." 811 General Services Building.

26 March, 4 p.m. K. Conn, "Interaction of Host Specific Phytoxins with I Membranes." 811 General Services Building.

31 March, 4 p.m. A. Calman, "Potato Late Blight." 811 General Services Building.

2 April, 4 p.m. H. Yu, "Synthesis of Chloroplast Proteins and Their Transport Into Chloroplasts." 811 General Services Building.

Sociology

25 March, noon. Shelly Goldenberg, University of Calgary, "On Teaching (Introductory) Sociology: Through the Hoops or Over the Wall?" 5-15 Tory Building.

1 April, noon. Valerie A. Haines, University of Calgary, "Reassessing the Conventional Sociological View of Spencer's Theory of Social Change." 5-15 Tory Building.

Centre for Gerontology

25 March, noon. D. Larson, Department of Community Health Sciences, University of Calgary, "Health Promotion for the Elderly: A Peer Education Approach." TB-W2 Tory Breezeway.

Forest Science

25 March, noon. E.A. Johnson, Department of Biology, University of Calgary, "Reconstructing the Population Dynamics of Lodgepole Pine Engelmann Spruce Forests." 4-1 Mechanical Engineering Building.

26 March, 3 p.m. Adrian de Jong, University, Sweden, "Site Adapted Regeneration Methods in Sweden." E340 Chemical/Mineral Engineering Building.

1 April, noon. Stephen M. Smith, Weyerhaeuser Canada Ltd., Prince Albert, Saskatchewan, "Weyerhaeuser Forest Management Agreement With Saskatchewan: A Blueprint for Tomorrow." 4-1 Mechanical Engineering Building.

Food Science

26 March, 10:30 a.m. Owen Fennema, Department of Food Science, University of Wisconsin, "Quality and Nutritive Changes During Food Handling and Processing." 342 Chemical/Mineral Engineering Building.
26 March, 2 p.m. Dr. Fennema, "Reaction Kinetics at Low Temperature." 723 General Services Building.

Limnology and Fisheries

Discussion Group

26 March, 12:30 p.m. Cliff Robinson, "A Preliminary Analysis of Fishes in Athabasca River Drainage Ponds: Random or Predictable Assemblages." P-319N Biological Sciences Centre.
2 April, 12:30 p.m. Wolfgang Jansen, "Feeding and Growth in Perch at Narrow and Baptiste Lakes." P-319N Biological Sciences Centre.

Soil Science

26 March, 12:30 p.m. L.J. Evans, Department of Land Resource Science, University of Guelph, "The Chemistry of Soil Aluminum." 2-36 Earth Sciences Building.

Chemical Engineering

26 March, 3 p.m. Franco Berruti, Department of Chemical and Petroleum Engineering, University of Calgary, "Measuring and Modelling Lateral Solid Mixing and Residence Time Distribution in a Gas-Solid Fluidized Bed for Biomass Pyrolysis." E342 Chemical/Mineral Engineering Building.

Science, Technology and Society Program

26 March, 3:30 p.m. Usher Fleising, Anthropology Department, University of Calgary, "The Culture of Science and the Regulation of Biotechnology." 1-05 Business Building.

Comparative Literature and English

26 March, 3:30 p.m. Meir Sternberg, Tel Aviv University, "Mimetics and Poetics: The Case of Biblical Dialogue." 2-38 Humanities Centre.
27 March, 1:30 p.m. Meir Sternberg, "Time and Reader." 2-37 Humanities Centre.

Slavic and East European Studies and East European Studies Society of Alberta

26 March, 7:45 p.m. Hans Altmann, "Shop-Floors and Prisons" (recollections of a German engineer in Stalin's Russia of the 1930s). Marytka Kosinski's slide presentation "Cultural Traditions in the Balkans" will follow the talk. Oak Room, German Cultural Centre, 8310 Roper Road (51 Avenue).

Romance Languages

24 March, 7 p.m. Québec writer Yolande Villemaire will read from her works in French. Conference room, Faculté Safran. Reception to follow.
27 March, noon. Yolande Villemaire will present a reading in English and French. L-3 Humanities Centre.

Classics

31 March, 3:30 p.m. Brent Shaw, Department of Classics, University of Lethbridge, "Tyrants, Kings and Bandits: Personal Power in Josephus." 1-8 Humanities Centre.

The Arts

Exhibitions

FAB Gallery

Until 22 March. "Selected Works by Graduating BFA Students." 1-1 Fine Arts Building.

Music

Until 3 April. A photo-documentary exhibition on the twentieth-century Austrian composers Arnold Schönberg, Anton von Webern, and Alban Berg. Second floor, Fine Arts Building.

Clothing and Textiles

Until 10 April. The Collier Collection of Chinese Folk Embroideries. Basement, Home Economics Building.

Ring House Gallery

Until 15 April. "Four Bizen Pieces"—an exhibition of pottery by Japanese artist Kaneshige Michiyaki.
Until 15 April. "The Pinhole Camera"—contemporary photographs made with cameras that do not use the features of a lens, shutter, focus knob and light meter.

McMullen Gallery

Until 24 April. "A Decade Plus." Walter C. Mackenzie Health Sciences Centre.

Bruce Peel Special Collections

Until 29 May. "Books Are/Books Are Not: Two Decades of Bookworks and Artists' Books, With Some Historical Precedents"—a colorful look at the remarkable things that have happened to books since the 1960s. Includes books that are wordless, altered, pop-up and fold-out. Hours: Monday and Friday—8:30 a.m. to 4:30 p.m.; Tuesday, Wednesday, Thursday—8:30 a.m. to 6 p.m.; Saturday—noon to 5 p.m.; Sunday—closed. B7 Rutherford South.

SUB Theatre

19 March, 8 p.m. Workshop West Theatre and the Physicians for Social Responsibility present Bob Bossin's "Home Remedy for Nuclear War." 429-4251.
20 March, 8 p.m. Kevin Fehr, Toronto's Addictions Research Foundation, will speak on "Drugs—the Lingering Legacy."
21 March, 8 p.m. The Edmonton Folk Music Festival presents "Second City Touring Company." 429-1899.
22 March, 8 p.m. "Ferris Bueller's Day Off."
27 March, 8 p.m. "Heartbreak Ridge."
28 March, 8 p.m. "Blue Velvet."

Théâtre Français d'Edmonton

20, 21, 26, 27, 28 March, 8 p.m. and 29 March, 3 p.m. "Le Gars de Québec." 469-0829.

Edmonton Film Society

24 March, 8 p.m. International Series—"Life is a Bed of Roses" ("La Vie Est Un Roman") (France, 1984). L-11 Tory Lecture Theatre.

Studio Theatre

26 March to 4 April. "Ten Lost Years 1929-1939." 432-2495.

Broadcasts

Radio

CKUA

21 March, 7 p.m. Music at the University of Alberta presents "Canadian Art Song." Guest: Alfred Stromberg.

28 March, 7 p.m. Music at the University of Alberta presents "Choral Music at the University of Alberta." Guest: Leonard Ratzlaff.

4 April, 7 p.m. Music at the University of Alberta presents "French Baroque Organ Music." Guest: Paul Rice.

Sports

Hockey

19 to 22 March. CIAU Championships. Varsity Arena. 432-2327.

Surplus Equipment

The equipment appearing in this column is available only to University departments with University-administered funds. For further information, telephone Jody Brookwell or Roy Bennett, 432-3208.

For sale: (1) Carl Zeiss Tessender Photomacrophotographic Zoom System R. Mandryk, Zoology, 432-3473.
(1) AJ510 Computer Terminal
L. Wang, Zoology, 432-4402/5495.

Educational Psychology. Strong research interest in intelligence and cognitive processes of normal, learning disabled and mentally retarded children.

Job description: The PDF/RA is expected to develop research grant proposals, initiate research projects and participate in on-going projects. The current project in which participation is required is on memory and attention in developmentally disabled children. He/she will also assist in administration of research grants and projects of the Centre. The appointment will be initially for a two-year period.

Salary: \$24,000 per annum plus some University benefits.

The Centre is a research unit of the University of Alberta. The Centre's staff currently includes the director (J.P. Das), five research associates at the postdoctoral level (full- and part-time), research assistants and students, and an associate professor of Educational Psychology who is organizing a clinical program for the Centre.

Current research projects are: (1) Low and high IQ learning disabled children: A study of their attentional and memory components; (2) Standardization of a battery of cognitive processing tasks; (3) Development of a model of reading comprehension; (4) Assessment and remediation of hyperactivity; and (5) Attentional deficit and mild mental retardation.

Send application to: Dr. J.P. Das, Developmental Disabilities Centre, University of Alberta, Edmonton, Alberta T6G 2E5. Enclose a copy of a curriculum vitae, a statement of research and career goals, and the names of three referees.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 13 March 1987. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Technical Assistant (Trust), Medicine, (\$1,366-\$1,716)

Animal Technician I, Health Sciences Laboratory - Animal Services, (\$1,580-\$2,027)

Technician I (Trust/Term), Foods and Nutrition, (\$1,580-\$2,027)

Technician I (Trust), Pediatrics, (\$1,580-\$2,027)

Departmental/Executive Secretary, Senate, (\$1,716-\$2,208)

Biology Technologist I, (Trust), Genetics, (\$1,945-\$2,510)

Programmer Analyst III, Computing Science, (\$2,741-\$3,579)

For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Sale - Windsor Park. Two listings.

Bungalow on lovely treed lot and 1 1/2-storey, five-bedroom home. Hardwood floors, double garages. Pat von Borstel, 437-6540, 436-5250. Spencer Real Estate.

Rent - Riverbend. New 2,800 sq. ft. home. Ten minutes from campus. Four bedrooms. Partially furnished. One year from 1 August. \$1,500/month. 430-6196.

Rent - Devon, Alberta. Cozy, three-bedroom house. Fenced yard. \$495/month. Western Relocation, 438-1044.

Rent - Glenora. Gracious, 2 1/2-storey, 3,000'. Outdoor pool, tastefully restored throughout. \$2,500/month. 1 April possession. Western Relocation, 438-1044.

Rent - Riverbend. Immaculate, furnished, split-level home. One-year lease, 1 July possession. \$1,300/month. Western Relocation, 438-1044.

For sale - Newly renovated. Near University. Close proximity to IGA and McKernan School. Double garage. Call John, 488-1856 (evenings, weekends).

For rent - 1 May. One-bedroom basement suite. Full kitchen, near Southgate. Quiet, non-smoker. 434-8801 (5-7 p.m.).

Rent - Ten minutes south of campus (bus/car). Three bedrooms, finished basement, garage. Available 13/14 months, mid-June 1987. Reasonable rent, right tenants. Non-smokers, no pets preferred. 435-0128.

Rent - New sabbatical home, fully furnished. Three bedrooms, den. Lessard. Available from May (flexible). Non-smokers. \$700/month. 487-8098.

Sale - University condominiums. Sensational, multi-level styling with vaulted ceilings, skylights. Fireplace, underground parking. Asking \$77,900 to \$86,900. Phone Joy E. Murray, NRS Realty Centre, 438-6111.

Sale - Riverbend condominium. Immaculate. Master bedroom has two-piece bath. Huge balcony. Ample storage areas. Includes appliances. Excellent value at \$54,900. Joy E. Murray, NRS Realty Centre Ltd. 438-6111.

Sale - Charming, near U of A. Tired of apartment living? Classy little home. This reconditioned, two-bedroom, white shingled bungalow has extras! Brick fireplace, beamed ceilings, \$65,000. 434-2303 after 6 p.m.

Rent - Westmount (Montreal), large, furnished Victorian house, near shops, Metro. Academic 1987-88. 433-6795.

Sale - New listing, Royal Gardens. Traditional, two-storey, four bedrooms, double attached garage. \$102,000. Call Joyce Byrne, 435-6064, 436-5250. Spencer Realtor.

Rent - University area, one-bedroom suite, clean, quiet, balcony. \$350. 433-6024.

Rent - On campus. Furnished, bachelor apartment. Available 11 April-August, with option to renew lease. Rent negotiable. Female, non-smoker preferred. Contact Barb at 432-6407 (days) or 433-6659 (evenings).

Sale - Year-round retreat on Savary Island, the gem of the Sunshine coast. This 2,200 sq ft. log home, beautifully crafted by the owner, now for sale. Call 438-9277 evenings.

Rent - Five-bedroom house, 11235 76 Ave. Double garage. Two, four-piece baths. Appliances. Excellent location. Available 1 May. Phone Otto, 468-6307. 462-2407 evenings/weekends.

Sale - North Windsor Park. Three-bedroom bungalow. Fireplace, two bedrooms in developed basement. Large lot, across from park. \$149,500. 439-9376.

Rent - Fully furnished, one-bedroom apartment. Next to University. April-June/early July 1987. \$457. Phone 439-0973 evenings.

Sale - 12.74 acres, fifteen minutes southwest of city, over 1,300' hillside bungalow, two fireplaces, sun room. \$92,900. Ronn Bence, Royal LePage, 438-5100, 436-6296.

Rent - Lendrum. Four-bedroom, unfurnished house. Family room, den, fenced yard, garden, five appliances.

Attached garage. Across from school playground. 1 May. 436-6763, 432-2761.

Sabbatical in London or Cambridge next year? For living accommodation/car, contact: Sunny Marche, 4 Daws Close, Cherry Hinton, Cambridge, England CB1 4LE. (Canadian academic currently in London, returning July 1987).

Accommodations wanted

Professional couple, one child and nanny, require rental furnished home. 1 April to 31 August. Prefer superior accommodation. Minimum three bedrooms. Phone 467-5409 evenings, weekends.

Furnished apartment, one-bedroom or bachelor, within walking distance of campus, wanted from September 1987-May 1988, by reliable University professor. 432-4381, 433-1388.

Visiting academic would like to rent a fully furnished, one-bedroom apartment near the University. May-August 1987. 432-3607.

New Zealand medical post-graduate student, wife, one child, require furnished accommodation for one year, commencing July. 436-8960.

Goods for sale

Cash paid for appliances, 432-0272. Typewriters to buy; or rent by the hour/day/week. Open every day, weekday evenings. Mark 9, HUB Mall. 432-7936.

Gestetner Mimeograph duplicators, excellent condition. \$150-\$250. 431-0662.

35mm. slide trays for Rollei projector. David Baine, 432-3755 or 436-6339 (message).

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf.

11610 75 Avenue. 436-8059. City Secretarial Service, 432-0138. Theses (word processed) \$18/hour. Electronic scanning \$3/page. Typing (double space/10 pitch) \$1.75/page. Carpentry/renovations. Framing, finishing, drywall taping, lino, arbourite, plumbing, electrical, skylights, sundecks. References. Dave Richards, 437-0794.

Thirty years' construction experience. Call Ron for all your new or renovation services. 433-8764.

Prebook word processing for same-day service. Photocopies, transparencies. Open every day, weekday evenings. Mark 9, HUB Mall. 432-7936.

Editing and research assistance by

University grad. (MA English, BComm). 434-8975. Word processing: Math, special symbols, graphs. 439-7863. Residential contractors, design additions, renovations, new homes. Innovations Plus Developments Limited. 437-6917. Professional seamstress. Tailor, made-to-order garments. Wardrobe planning, alterations. Bridesmaid, wedding dresses. Western wear. 469-6292. Will provide care for full- and part-time preschoolers in approved family day home. University area. 434-3728. Develop a poised and polished image. Image-In, certified fashion consulting for men and women. 472-0767.

Colour photographs of the RICK HANSEN RALLY

held at the Universiade Pavilion Friday, March 6

Crowd Shots, Personalities and Hansen himself

Over 90 different pictures Order at Room W-90 Physical Education Building Call 432-2781 Proceeds to the Man in Motion Campaign

downtown COMPUTER LEARNER CENTRE

University of Alberta



MICROCOMPUTER TRAINING

- Lotus
- PC DOS
- dBase III

4, 8 & 12 hour courses Days, Evenings & Weekends Information 432-5318

Faculty of Extension

TRAVEL CUTS CANADIAN UNIVERSITIES TRAVEL SERVICE LIMITED

- * FACULTY AND CORPORATE SERVICES
- * SABBATICAL TRAVEL
- * COMPLETE RESERVATION SERVICE FOR AIRLINES, HOTELS, CARS, TOURS
- * VACATION TRAVEL
- * 20 CANADIAN OFFICES AND LONDON, UK
- * SERVING THE UNIVERSITY OF ALBERTA FOR 8 YEARS
- * CONVENIENT CAMPUS LOCATION

MAIN FLOOR
STUDENTS' UNION BUILDING
UNIVERSITY OF ALBERTA
432-2756

Personal Computer Word Processing Training

RESTRICTED to University Staff only

Location: 219 CAB

Courses Offered: Multimate (Multimate and Advantage) DisplayWrite 3

Courses are three days in duration (8:30 a.m. to 3:30 p.m.). They provide an indepth training of all aspects of the software and include training/reference manuals.

For information and registration call: Dale - 3343

A Professional Community

That suits your lifestyle.

For appointment to view call:

439-4957

433-4466

BOWLEN
Realty Services Inc.

8210 - 111 Street

